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PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

STATUS OF NORTH VIETNAMESE RAILROADS

DECLASS REVIEW by NIMA/DOD

REPORT NO. 32
CIA/PIR 75104

DATE MAR. 1967

GROUP 1
Excluded from automatic
downgrading and declassification

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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DDI IMAGERY ANALYSIS STAFF PIR 75104

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P R E F A C E

This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

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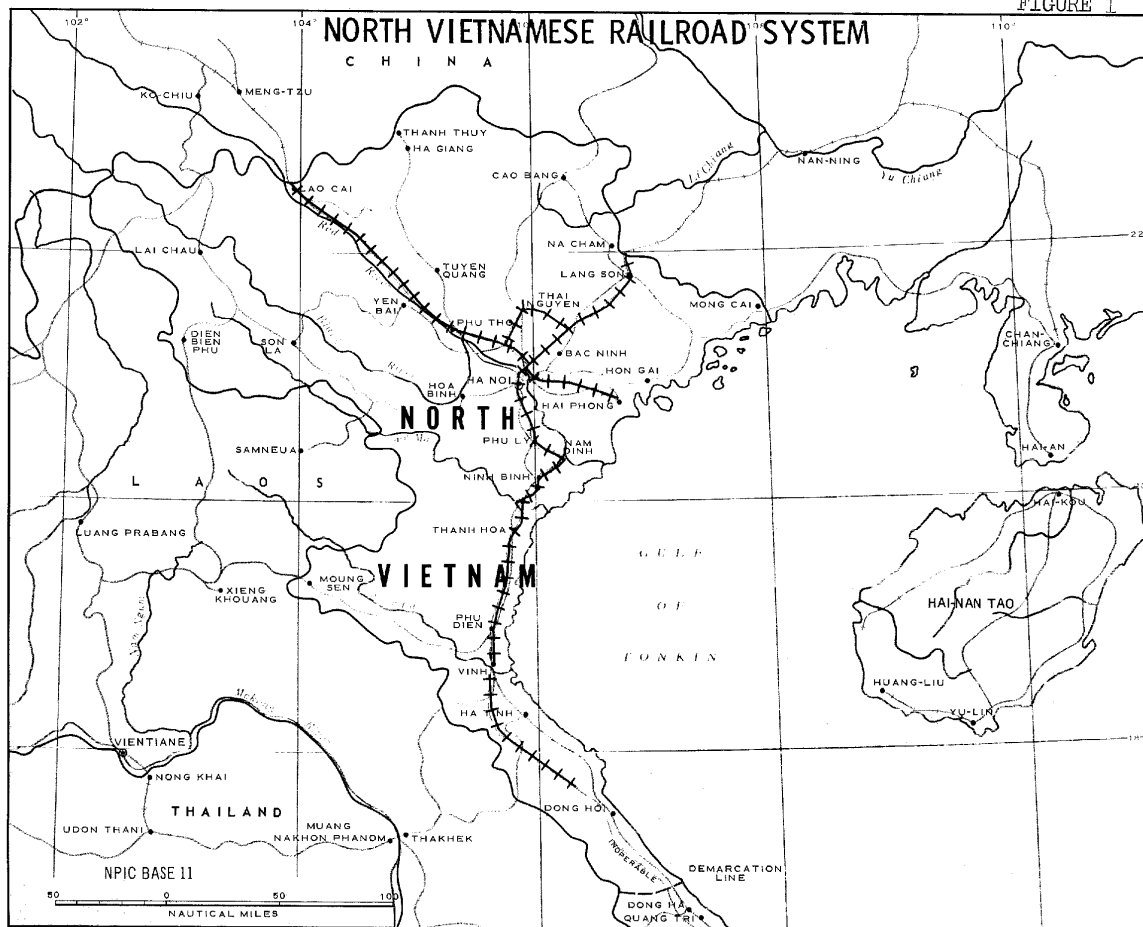
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FIGURE 1

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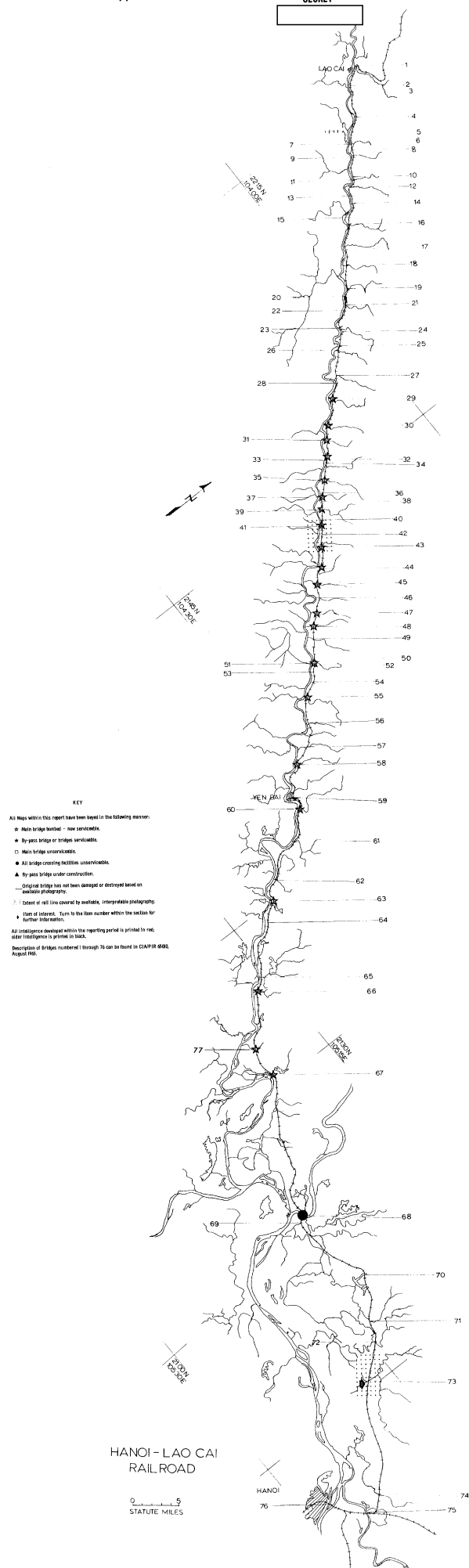
SUMMARY

Those portions of the Hanoi/Lao Cai and Thai Nguyen Rail Lines covered by interpretable photography were open to through traffic. One bridge interdiction was noted on the Hanoi/Dong Hoi Rail Line and considerable reconstruction activity has also been noted on the southern portion of this line.

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STATUS OF OBSERVED BRIDGES
HANOI/LAO CAI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	30 Lang Thip Railroad Bridge over Ngoi Thip [REDACTED]	[REDACTED]	S
25X1	32 Lang Kay Railroad Bridge NW over Ngoi Key [REDACTED]		S
25X1	35 Lang Kay Railroad Bridge over Ngoi Chuc [REDACTED]		S
25X1	37 Lang Kay Railroad Bridge S over Nam Linh [REDACTED]		S
25X1	39 Lang Khay Railroad Bridge over Ngoi Kay [REDACTED]		S
25X1	41 Khe Se Railroad Bridge S over stream [REDACTED]		S
25X1	43 Trai Hut Railroad Bridge NW over Ngoi Cho [REDACTED]		S
25X1	44 Trai Hut Railroad Bridge over Nam Lam [REDACTED]		S
25X1	45 Som Dong Dep Railroad Bridge over Nam Muoi [REDACTED]		S
25X1	47 Lang Quach Ngoai Railroad Bridge N over Ngoi Vai [REDACTED]		S
25X1	48 Lang Quach Ngoai Railroad Bridge over Ngoi Quach [REDACTED]		S
25X1	51 Pho Chang Railroad Bridge over Ngoi Trang [REDACTED]		S
25X1	55 Pho Hop Railroad Bridge over Ngoi Hop [REDACTED]	S	
25X1	67 Phu Tho Railroad Bridge E over stream [REDACTED]	S	

* All data is compiled from photography dated [REDACTED] or thereafter.
Symbols: S - serviceable, U - unserviceable.

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ITEM OF INTEREST NO. 1: Hanoi/Lao Cai Rail Line

NAME : Dia Lci RR. Bridge N.

BE :

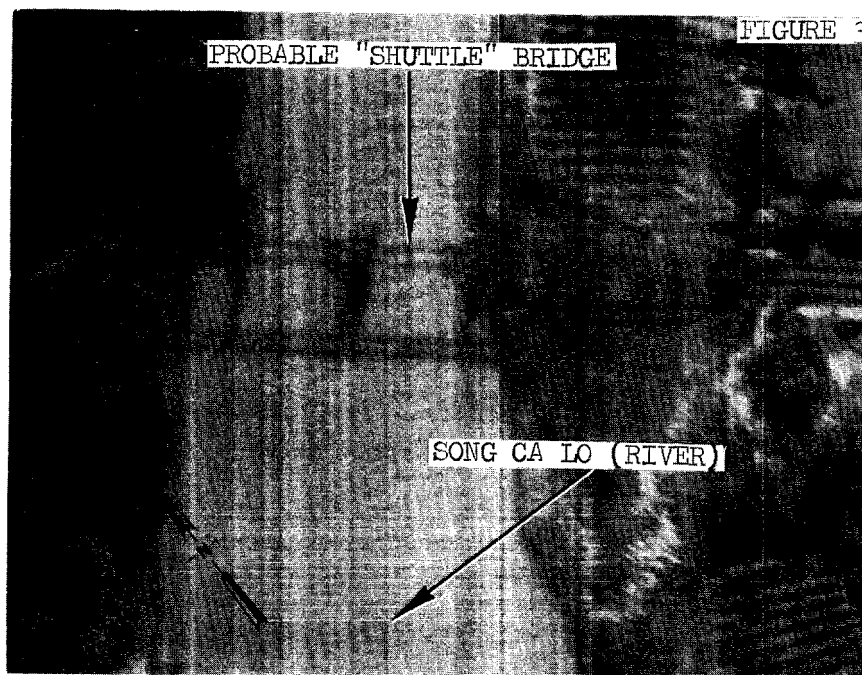
COORDINATES : 21 15N - 105 41E, WJ718508

PHOTO REFERENCE :

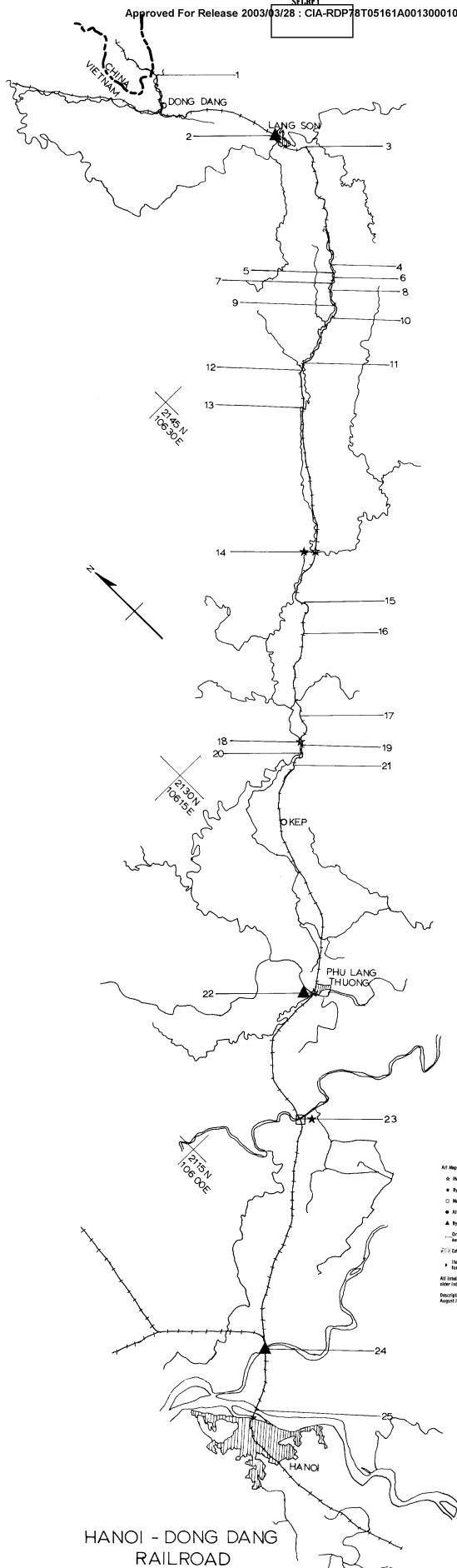
MAP REFERENCE : JOG (A) 1501, NF 48-11

25X1

A probable 7-span, deck-beam "shuttle" bridge has been constructed over the Song Ca Lo (River) approximately 400' north of the main bridge [REDACTED]. The track across this bridge does not connect with the main line, and the bridge itself does not appear to be strong enough to withstand the weight of locomotives and conventional rolling stock. This indicates that the bridge could be used to shuttle goods across the river in lightweight cars, if and when the main bridge is destroyed.



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KEY

All maps within this report have been based on the following sources:

- Main bridge location - new construction.
- By-pass bridge or bridge, non-usable.
- Main bridge unusable.
- All bridge crossing facilities, unusable.
- By-pass bridge under construction.
- Bridge bridge not been damaged or destroyed based on available photography.

2. Date of rail line covered by available, interpretable photography.

All intelligence developed within the reporting period is printed in red, other intelligence is printed in black.

Descriptions of bridges numbered 1 through 25 can be found in CHAPTER 604, August 1967.

HANOI - DONG DANG
RAILROAD

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STATUTE MILES

RAILROAD
STREAMS
BRIDGE NO. & LOCATION

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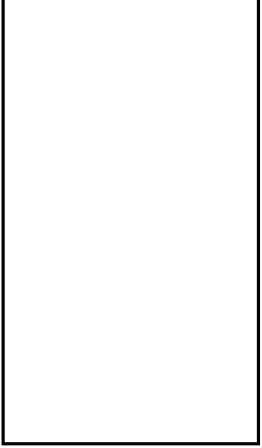
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STATUS OF OBSERVED BRIDGES
HANOI/DONG DANG RAIL LINE

14	Cao Nung Railroad Bridge over Song Hoa [REDACTED]		S	25X1
14	Cao Nung Railroad Bridge E over Song Hoa [REDACTED]		S	
22	Bac Giang Railroad and Highway Bridge over Song Thuong [REDACTED]		S	
23	Dap Cau Railroad and Highway Bridge over Song Cau [REDACTED]		U	
23	Dap Cau Railroad Bridge over Song Cau [REDACTED]		S	

* All data is compiled from photography dated [REDACTED] or thereafter.

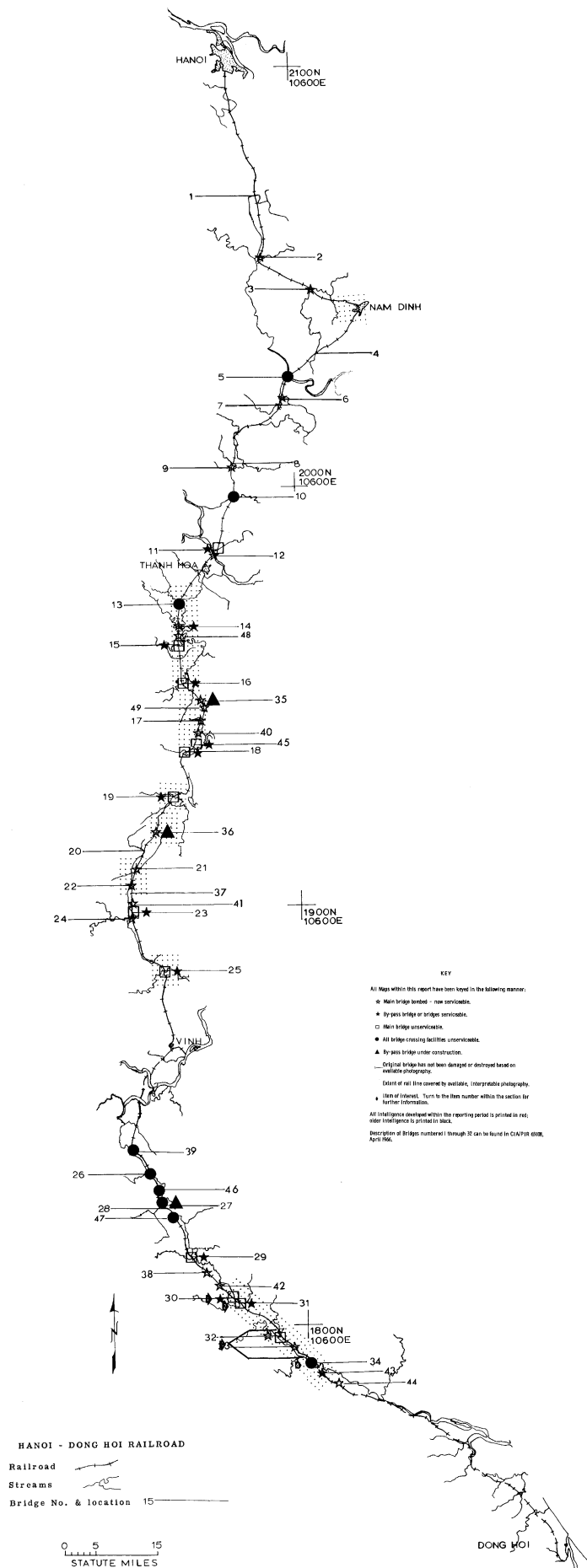
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Symbols: S - serviceable, U - unserviceable

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STATUS OF OBSERVED BRIDGES
HANOI/DONG HOI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>	
25X1	3 Cao Duong Railroad and Highway Bridge over canal [REDACTED]	[REDACTED]	S	25X1
25X1	5 Ninh Binh Railroad and Highway Bridge over Song Day [REDACTED]		U	
25X1	5 Ninh Binh Railroad Bridge over Song Day [REDACTED]		U	
	5 Ninh Binh Railroad Pontoon Bridge		U	
25X1	6 Ha Thon Railroad and Highway Bridge over Song Vac [REDACTED]		S	
25X1	7 Ly Nhan Railroad and Highway Bridge over stream [REDACTED]		S	
25X1	9 Yen Xa Railroad and Highway Bridge over stream [REDACTED]		S	
25X1	10 Dong Phong Thuong Railroad and Highway Bridge over Song Len [REDACTED]		U	
25X1	10 Dong Phong Thuong Railroad Bridge S over Song Len [REDACTED]		U	
25X1	10 Dong Phong Thuong E Railroad By-Pass Bridge [REDACTED]		U	
25X1	11 Phuong Dinh Railroad and Highway Bridge over Lach Truong [REDACTED]		U	
25X1	11 Phuong Dinh Railroad Bridge over Lach Truong [REDACTED]		S	
25X1	12 Thanh Hoa Railroad and Highway Bridge over Song Ma [REDACTED]		S	
25X1	13 Thien Linh Dong Railroad Bridge over Hoang Giang [REDACTED]	U		

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	13 Thien Linh Dong Railroad Bridge SW over River [REDACTED]	[REDACTED]	U
25X1	14 Thinh Lac Railroad Bridge over stream [REDACTED]		S
25X1	14 Thinh Lac Railroad Bridge SSW over stream [REDACTED]		S
25X1	15 Truong Quang Tien Railroad Bridge over Song Yen Tr [REDACTED]		U
25X1	15 Truong Quang Tien Railroad Bridge E over River [REDACTED]		S
25X1	16 Thi Long Railroad Bridge over Suoi Cay Gang [REDACTED]		U
25X1	16 Thi Long Railroad Bridge SW over Suoi Cay Gang [REDACTED]		S
25X1	17 Phu Quat Railroad Bridge over stream [REDACTED]		S
25X1	18 Dia Thuy Railroad Bridge SW over Khe Dua [REDACTED]		U
25X1	18 Dia Thuy Railroad Bridge NW over Khe Dua [REDACTED]		S
25X1	19 Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai [REDACTED]		U
25X1	19 Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai [REDACTED]		S
25X1	19 Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [REDACTED]		U
25X1	19 Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [REDACTED]	S	
25X1	21 Long Ngoc Railroad and Highway Bridge unknown barrier [REDACTED]	S	

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
22	Dong Khe Railroad Bridge over stream [redacted]	[redacted]	S
23	Dien Chau Railroad Bridge over Song Bang [redacted]		U
23	Dien Chau Railroad Bridge E over Song Bang [redacted]		S
24	Da Phuc Railroad Bridge over Intermittent Waterway [redacted]		S
25	Tam Da Railroad and Highway Bridge over Song Cua Lo [redacted]		U
25	Tam Da Railroad By-Pass Bridge		S
26	Trai Hoi Railroad and Highway Bridge over Ngan Sau [redacted]		U
27	Xom Hoai Railroad and Highway Bridge over Rao No [redacted]		U
32	Xom Khe Railroad Bridge over Khe Net [redacted]		U
32	Xom Khe Railroad Bridge By-Pass over Khe Net		S
33	Kim Lu Xa Railroad Bridge over Khe Danh [redacted]		S
35	Thi Long Railroad Bridge SE over stream [redacted]		S
36	Tho Trang Railroad Bridge over stream [redacted]		S
39	Quang Te Railroad Bridge over Khe Hac Giang [redacted]		U
40	Qui My Railroad Bridge over stream [redacted]		S
41	Tu My Railroad Bridge	S	

25X1

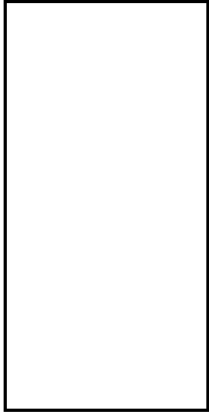



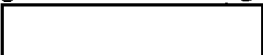
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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
42	Trai Tran Xom Railroad Bridge		S
43	Dong Ca Thon Railroad and Highway Bridge over Cai Khe 		S
45	Phu Cu Railroad Bridge N over stream 		U
48	Sai Thon Railroad Bridge N over stream 		S
49	Nap Bang Railroad Bridge over stream 		S

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* All data is compiled from photography dated  or thereafter.

25X1

Symbols: S - serviceable, U - unserviceable

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ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME : Bai Duc Thon RR. Bridge S

BE

: [REDACTED]

COORDINATES : 18 03N - 105 50E, WE886964

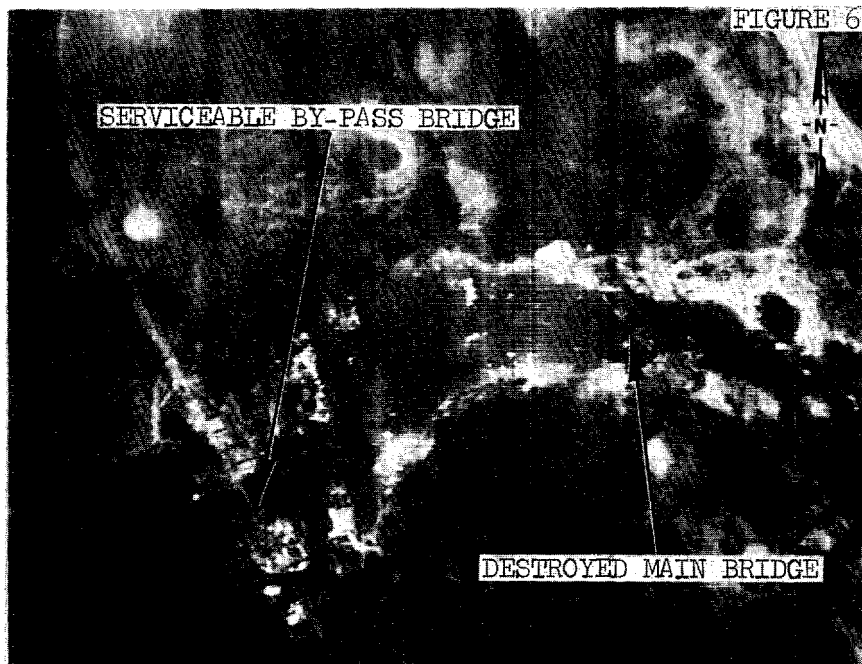
PHOTO REFERENCE

: [REDACTED]

MAP REFERENCE

: JOG (A) 1501, NE 48-7

The 10-span Bai Duc Thon Railroad Bridge S has been repaired and is serviceable. This structure has probably been reconstructed as a removeable deck-beam type bridge similar to Bridge No. 29 (Report Nos. 8 and 25). The main bridge [REDACTED] remains unserviceable.



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[REDACTED]

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ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME : La Khe Thon RR. By-Pass Bridge

BE : NA


COORDINATES : 18 03N - 105 49E, WE870974

PHOTO REFERENCE :



25X1

MAP REFERENCE : JOG (A) 1501, NE 48-7

The multi-span, deck-beam La Khe Thon Railroad By-pass Bridge has been repaired and is serviceable. The main bridge  remains unserviceable. The track .1 nm south of the by-pass bridge has been interdicted.

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ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME : Rolling Stock

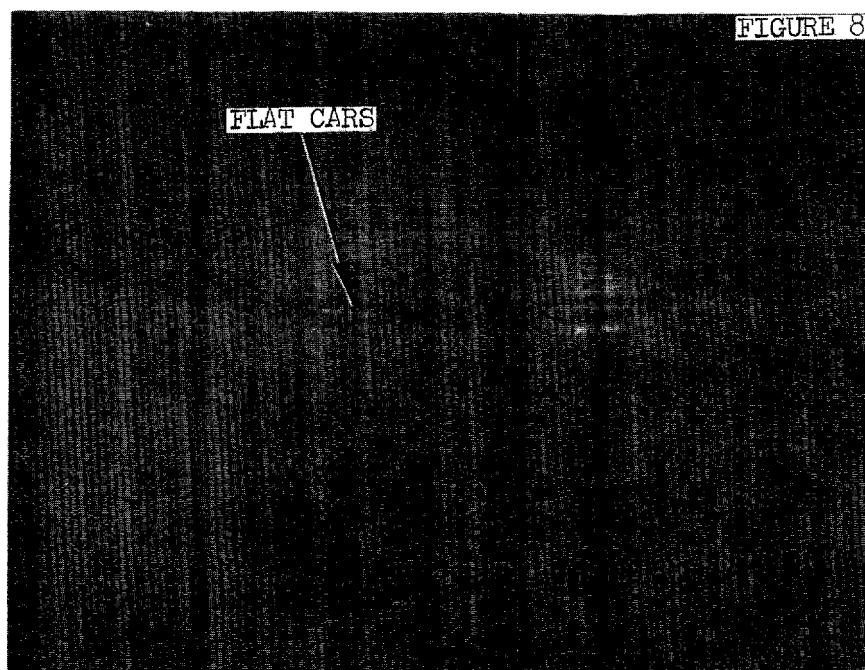
BE : NA

COORDINATES : Various

PHOTO REFERENCES :

MAP REFERENCE : JOG (A) 1501, NE 48-11

At least six 2-axle flat cars were observed near the Xom Khe river crossing at 17 58N - 105 55E (Figures 8 and 9). One converted truck, 2 possible converted trucks, one 2-axle flat car, and 3 unidentified cars were observed on the rail line just to the north of the destroyed Thuong Phong Trang Railroad Bridge [REDACTED] at 17 54N - 106 00E (Figure 10). At least three 2-axle flat cars were located south of this bridge. The presence of this rolling stock, previously not observed at these locations, indicates that this section of the line is in active use.



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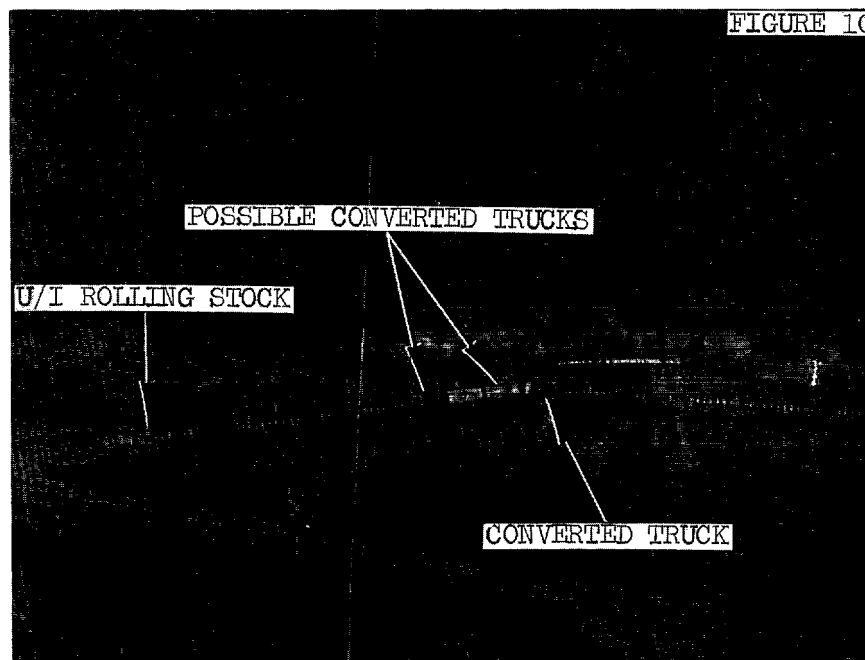
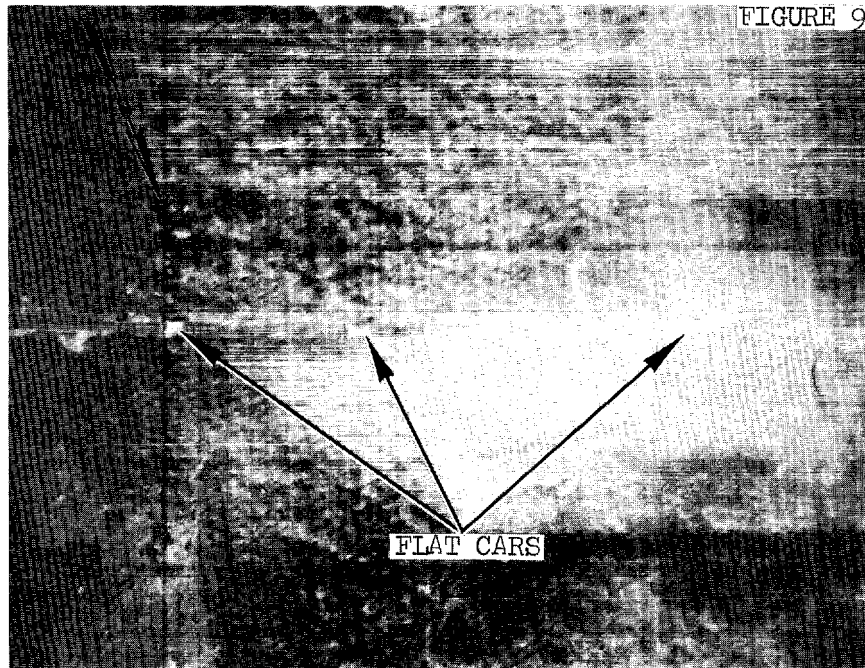
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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 4: Hanoi/Dong Hoi Rail Line

NAME : Construction Supplies

BE : NA

COORDINATES : 17 54N - 106 00E

PHOTO REFERENCE :

[REDACTED]

25X1

MAP REFERENCE : JOG (A) 1501, NE 48-11

A considerable amount of construction material is present on both banks of the Rao Nay near the site of the destroyed Thuong Phong Trang Railroad Bridge [REDACTED]. Two large stacks of ties are present on the south bank of the river at UTM XE063803 (Figure 11), and more ties and a stack of rails are located on the north bank at UTM XE064804 (Figure 12). These materials may be used in the southward extension of this part of the rail line.

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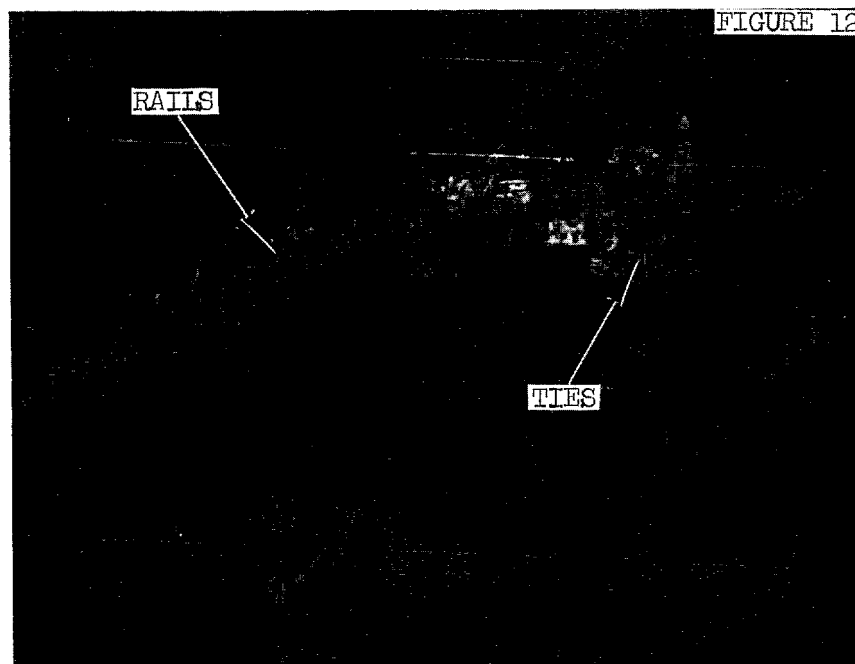
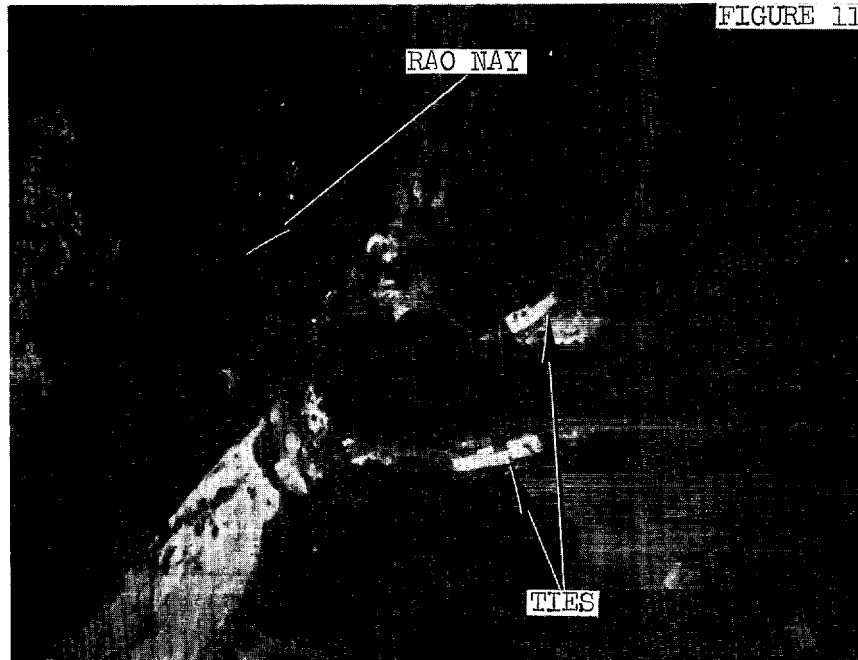
[REDACTED]

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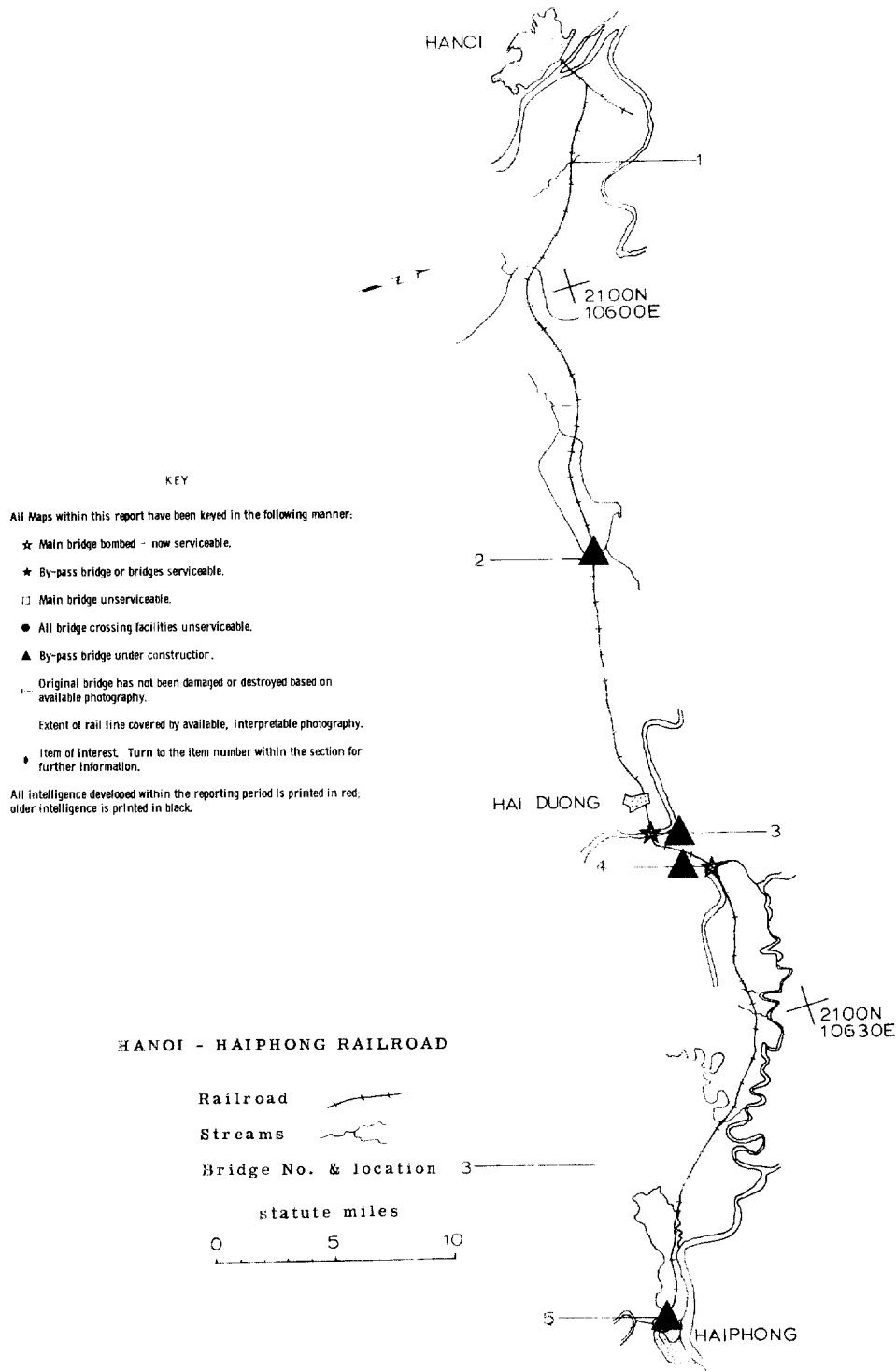
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FIGURE 13

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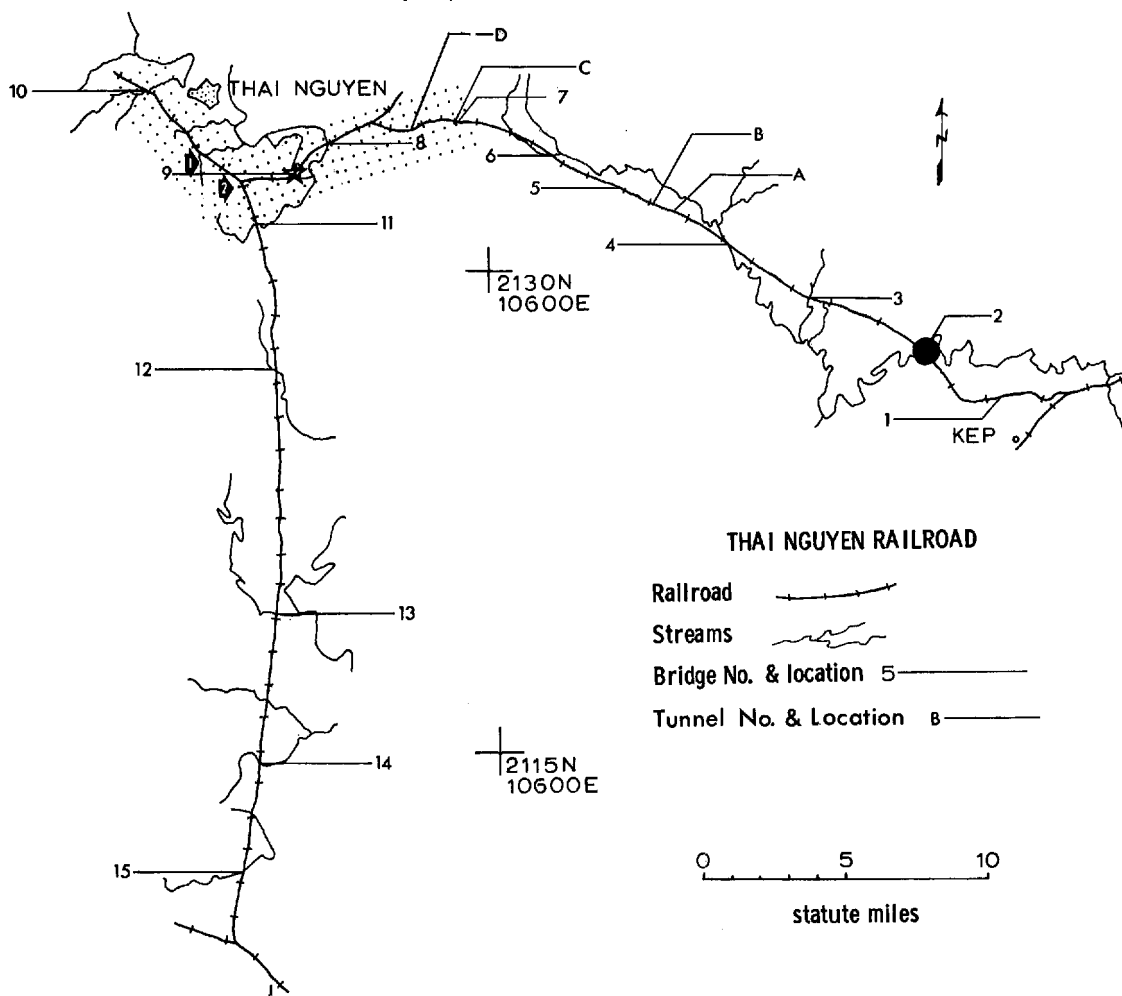
FIGURE 14

KEY

All Maps within this report have been keyed in the following manner:

- ★ Main bridge bombed - now serviceable.
- ★ By-pass bridge or bridges serviceable.
- Main bridge unserviceable.
- All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- Original bridge has not been damaged or destroyed based on available photography.
- Extent of rail line covered by available, interpretable photography.
- ◆ Item of Interest. Turn to the Item number within the section for further information.

All intelligence developed within the reporting period is printed in red; older intelligence is printed in black.



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STATUS OF OBSERVED BRIDGES
THAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	2 Dong Muc Railroad Bridge over Song Thuong [REDACTED]	[REDACTED]	U
25X1	9 Lang Lau Railroad Bridge over Song Cau [REDACTED]		S

* All data is compiled from photography dated [REDACTED] or thereafter.

25X1

Symbols: S - serviceable, U - unserviceable

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ITEM OF INTEREST NO. 1: Thai Nguyen Rail Line

NAME : Thai Nguyen Railroad Station, Yards and Shops

BE

: [REDACTED]

COORDINATES : 21 33N - 105 52E, WJ882842

PHOTO REFERENCES

: [REDACTED]

MAP REFERENCE : JOG (A) 1501, NF 48-11

Photography of [REDACTED] reveals heavy cratering of the Thai Nguyen Railroad Yards (Figure 15). Both choke points remain intact, but all through tracks have been interdicted. The yard may be by-passed by using tracks leading into and out of the steel mill. These tracks are dual gauge (i.e., meter and standard gauge). Approximately 26 of the 79 pieces of rolling stock in the yard are damaged or destroyed.

Six locomotives were observed north of the yard in the vicinity of the turning wye at UTM WJ872853. One locomotive was observed attached to a string of probable truck assemblies (i.e., wheel and axle assemblies) (Figure 16). Large quantities of rail were stockpiled in 2 locations near the yard: one area of concentration is between the yard proper and the turning wye at UTM WJ874848 (Figure 17), and a second area of probable rail storage is within the storage area of the Thai Nguyen Iron and Steel Combine [REDACTED] at UTM WJ888841 (Figure 18). A portion of these rails may be intended for use in the extension of dual gauge tracking towards Hanoi.

Photography of [REDACTED] reveals additional damage to the Thai Nguyen Railroad Yards (Figure 19). Many of the previous interdictions have been repaired, but several new craters are present from new air strikes. All through tracks are interdicted, but both choke points remain intact. Approximately 28 of a total of 85 pieces of rolling stock within the yard are damaged or destroyed.

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STATUS OF OBSERVED BRIDGES
THAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	2 Dong Muc Railroad Bridge over Song Thuong [REDACTED]	[REDACTED]	U
25X1	9 Lang Lau Railroad Bridge over Song Cau [REDACTED]		S

* All data is compiled from photography dated [REDACTED] or thereafter.

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Symbols: S - serviceable, U - unserviceable

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ITEM OF INTEREST NO. 1: Thai Nguyen Rail Line

NAME : Thai Nguyen Railroad Station, Yards and Shops

BE :

COORDINATES : 21 33N - 105 52E, WJ882842

PHOTO REFERENCES :

MAP REFERENCE : JOG (A) 1501, NF 48-11

25X1

Photography of [] reveals heavy cratering of the Thai Nguyen Railroad Yards (Figure 15). Both choke points remain intact, but all through tracks have been interdicted. The yard may be by-passed by using tracks leading into and out of the steel mill. These tracks are dual gauge (i.e., meter and standard gauge). Approximately 26 of the 79 pieces of rolling stock in the yard are damaged or destroyed.

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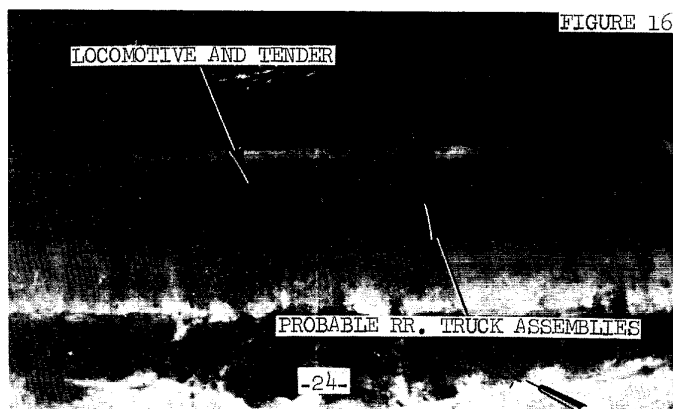
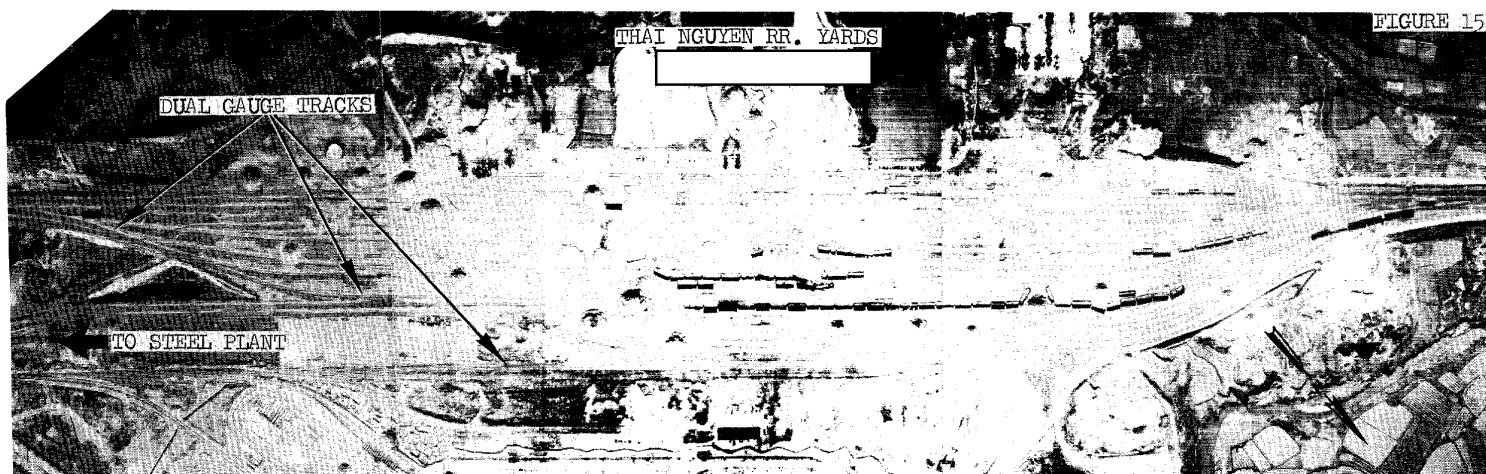
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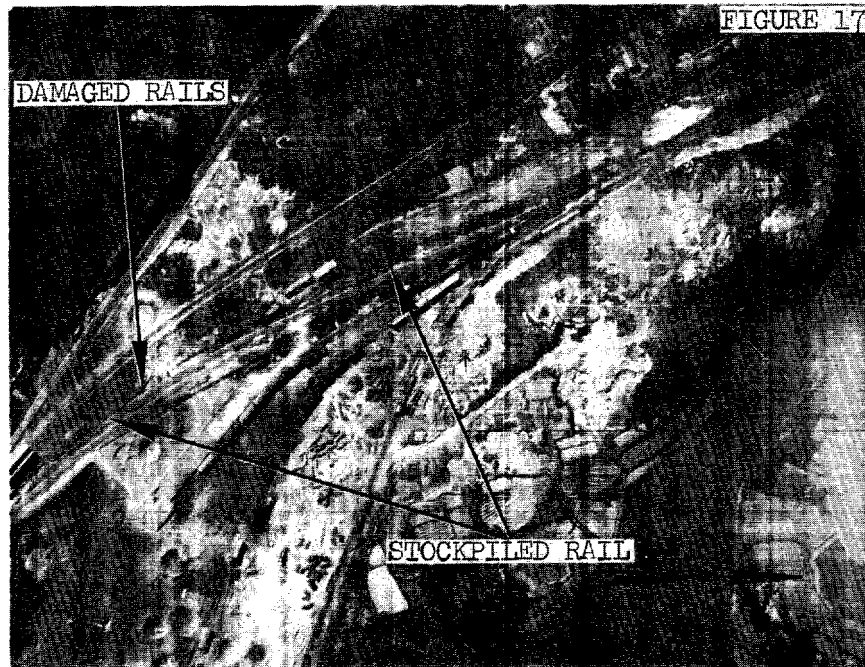
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THAI NGUYEN RR. YARDS

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FIGURE 19

Approved For Release 2003/03/26 : CIA-RDP78T05161A001300010026-7

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DDI IMAGERY ANALYSIS STAFF

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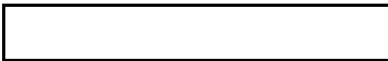
25X1

ITEM OF INTEREST NO. 2: Thai Nguyen Rail Line

NAME : Dual Gauge Construction

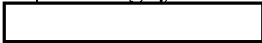
BE : NA

COORDINATES : 21 33N - 105 53E

PHOTO REFERENCE : 

MAP REFERENCE : JOG (A) 1501, NF 48-11

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A further extension of standard gauge tracking has taken place on the Thai Nguyen Rail Line. A short rail segment is in the final stages of construction at UTM WJ898827 (Figure 20). Standard gauge track is being laid on this roadbed, and a probable welded rail section lying adjacent to the track may be laid to render this segment serviceable to meter gauge traffic also. This new segment will allow traffic to flow directly from Kep to Nguyen Khe without turning around in the Thai Nguyen Railroad Yards  The gauges of the Thai Nguyen Rail Line are as illustrated in Figure 22.

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FIGURE 20

TO NGUYEN KHE

TO THAI NGUYEN

DUAL GAUGE TRACK

STANDARD GAUGE ONLY

DUAL GAUGE TRACK

INCOMPLETE TRACK

TO KEP

-28-

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FIGURE 21

TO THAI NGUYEN

DUAL GAUGE TRACK

PROBABLE STANDARD GAUGE TIES

DUAL GAUGE TRACK

TO IRON ORE PROCESSING PLANT

TO KEP

STANDARD GAUGE TRACK

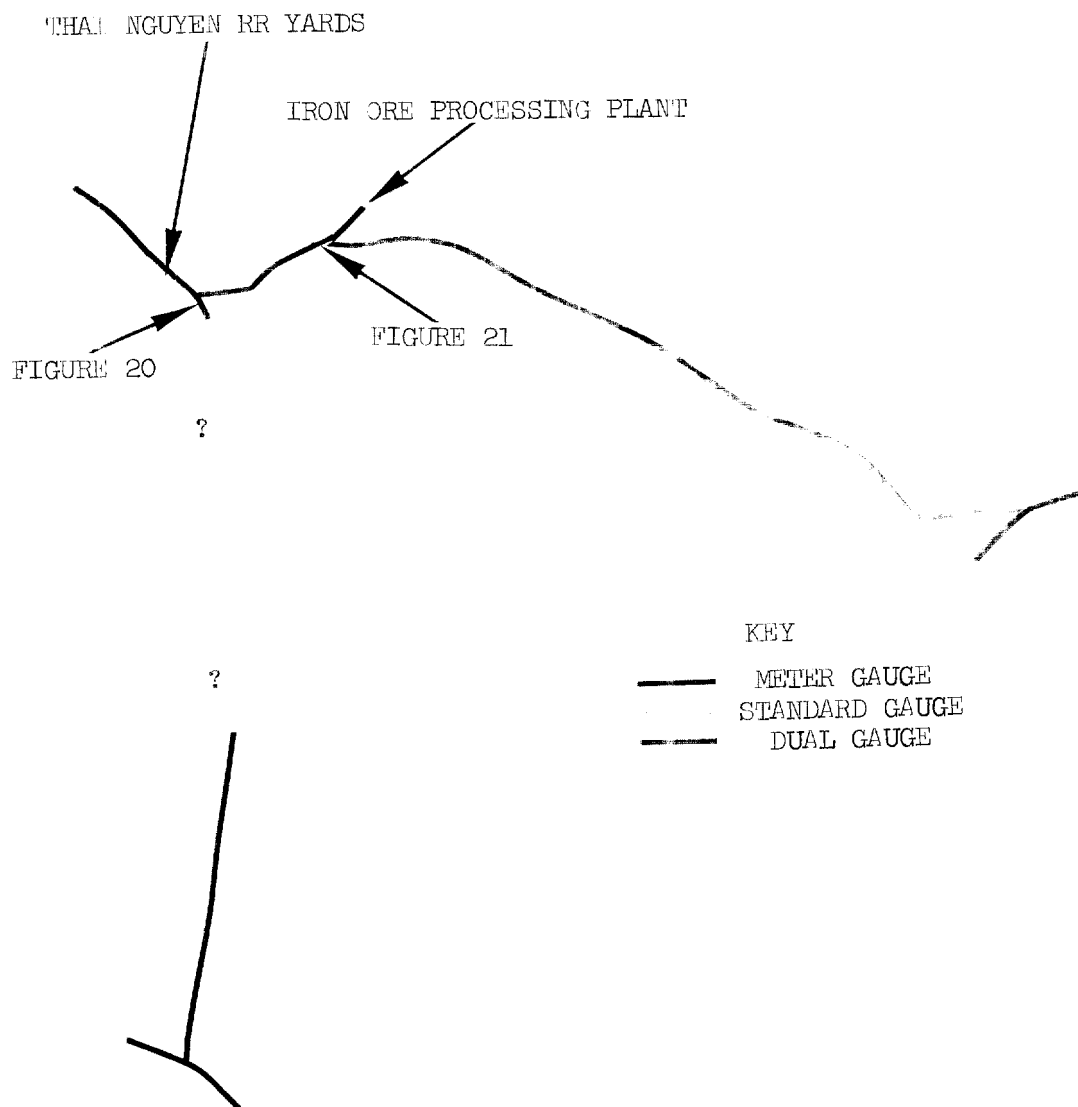
METER GAUGE TRACK

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FIGURE 22

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